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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/042,926	10/042,926 01/09/2002		John Stuart Wright	I69.12-0512	4510	
164	7590	12/05/2005		EXAMINER		
KINNEY		E, P.A. NGE BUILDING	ADDISON, KAREN B			
312 SOUTI				ART UNIT	PAPER NUMBER	
MINNEAP	OLIS, M	N 55415-1002		2834		
				DATE MAILED: 12/05/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	C
supplemental	10/042,926	WRIGHT ET AL	
Notice of Allowability	Examiner	Art Unit	
	Karen B. Addison	2834	
The MAILING DATE of this communication apperall daims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject to	plication. If not included n will be mailed in due cours	se. THIS
1. This communication is responsive to 6/1/04.			
2. X The allowed claim(s) is/are 1-9,11-16 and 28-38.			
3. A The drawings filed on <u>09 January 2004</u> are accepted by the	e Examiner.		
 4. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No		rom the
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply ENT of this application.	complying with the requirer	ments
 A SUBSTITUTE OATH OR DECLARATION must be submi- INFORMAL PATENT APPLICATION (PTO-152) which give 	tted. Note the attached EXAMINER's reason(s) why the oath or declara	'S AMENDMENT or NOTIC	E OF
6. CORRECTED DRAWINGS (as "replacement sheets") must	t be submitted.		
(a) I including changes required by the Notice of Draftsperso		948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or in the C	office action of	
Identifying indicia such as the application number (see 37 CFR 1.4 each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the drawin e header according to 37 CFR 1.121(c	igs in the front (not the back i).	i) of
 DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT F 	it of BIOLOGICAL MATERIAL n FOR THE DEPOSIT OF BIOLOGICA	nust be submitted. Note t AL MATERIAL.	the
Attachment(s) 1. 📆 Notice of References Cited (PTO-892)	5. Notice of Informal P	atent Application (PTO-152	2)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary Paper No./Mail Date	(PTO-413), e	
3. / Information Disclosure Statements (PTO-1449 or PTO/SB/08	3), 7. Examiner's Amendm	nent/Comment	
Examiner's Comment Regarding Requirement for Deposit of Biological Material		nt of Reasons for Allowanc	;e
or biological inlaterial	9. Other		

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DETAILED ACTION

Allowable Subject Matter

1. Claims 1-9,11-16,28-33 are allowed.

The following is an examiner's statement of reasons for allowance: Prior art fails to show an optically guided dicing method for making a plurality of 4-sided trapezoid elements from a substrate having a surface many times larger than that of a single element, each element having first and second opposing major sides, and a top and a bottom opposing each other, the top having a top width, the bottom having a bottom width which is greater than the top width, and each element father has a length measured from the bottom to the top, wherein the first and second angled major sides define a first identical feature angle of the 4-sided trapezoid elements, the bottom and the first or the second major side define a second identical feature angle of the 4-sided polygon-shaped elements, the method comprising: marking the surface of the substrate using a plurality of optically detectable marks, wherein the marks defining an n-sided (nk3) guiding polygon having a size substantially greater than that of a single 4-sided trapezoid element, the guiding polygon having a first and second angled opposing major sides defining an angle that is equal to the first identical feature angle of the elements, and a third side defining with one of the first and the second sides an angle equal to the second identical feature angle of the elements; cutting the substrate a plurality of times along a first cutting direction parallel to the first angled opposing major side of the guiding polygon, each cut being spaced from an adjacent cut by the bottom width of the corresponding elements; cutting the substrate a

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plurality of times along a second cutting direction parallel to the second angled opposing major side of the guiding polygon, each cut being spaced from an adjacent cut by the bottom width of the corresponding elements; and cutting the substrate a plurality of times along a third cutting direction parallel to the third side of the guiding polygon, each cut being spaced from an adjacent cut by the length of the corresponding elements. Prior art also fails to show the first cutting direction and the second cutting direction that intersect to form a feature angle less that 90 degrees. Prior art also fails to show a third set of cuts and marks to defined the third cutting direction, wherein the third pair of marks are different from both the first pair of marks and the second pair marks of by at least one mark

2.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karen B Addison whose telephone number is 571-272-2017. The examiner can normally be reached on 8:00 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on 571-272-2204. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KBA 11/5/05

DARREN SCHUBERG
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 100%